

...JANUARY 2011 REGIONAL CLIMATE SUMMARY...

SUMMARY FOR THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA...
JANUARY 2011 WAS CHARACTERIZED BY DRY CONDITIONS WITH SEVERAL SUNNY AND WARM DAYS. PERSISTENT FOG WAS AN ISSUE IN LOCALIZED AREAS. THESE WEATHER CONDITIONS WERE CAUSED BY A VERY STABLE WEATHER PATTERN THAT DEVELOPED ACROSS NORTH AMERICA DURING THE MONTH...A WEATHER PATTERN WITH A TROUGH OF LOW PRESSURE TO THE EAST OF THE ROCKIES AND A RIDGE OF HIGH PRESSURE ANCHORED ALONG OR NEAR THE WEST COAST.

THE YEAR GOT OFF TO A WET START WITH MODERATE AMOUNTS OF RAIN FALLING ACROSS THE REGION ON JANUARY 1 AND 2 AS A LOW PRESSURE SYSTEM TRACKED ACROSS THE AREA. NO WEATHER OF SIGNIFICANCE OCCURRED DURING THE NEXT TEN DAYS...WITH ALMOST NO RAIN AND TEMPERATURES NEAR NORMAL TO SLIGHTLY BELOW NORMAL. ON THURSDAY JANUARY 13...A WARMER AIRMASS BEGAN TO SPREAD ACROSS THE AREA AND LIGHT RAIN FELL THAT DAY. THE RAIN ON THE 13TH WOULD BE THE LAST RAIN OUR AREA WOULD SEE FOR MORE THAN 2 WEEKS. HIGH PRESSURE PRODUCED MOSTLY CLEAR SKIES AND WARMER THAN NORMAL DAYTIME TEMPERATURES ACROSS MOST OF THE AREA FROM THE 14TH THROUGH THE 27TH. TEMPERATURES WARMED INTO RECORD TERRITORY BY THE 20TH AND THERE WERE SIX CONSECUTIVE DAYS OF RECORD WARMTH IN OUR AREA FROM THE 21ST THROUGH THE 27TH. BUT NOT EVERYONE EXPERIENCED THESE WARM AND SUNNY CONDITIONS. PORTIONS OF THE SAN FRANCISCO BAY AREA ENDURED SEVERAL COOL...DAMP...AND FOGGY DAYS EVEN WHILE THE REST OF THE AREA BASKED IN FULL SUN. THE STABLE AIRMASS IN PLACE FOR MOST OF THE MONTH ALLOWED WIDESPREAD TULE FOG TO DEVELOP AND PERSIST IN THE CENTRAL VALLEY. LIGHT OFFSHORE FLOW PUSHED THE TULE FOG WESTWARD INTO THE DELTA AND LOCALLY INTO THE NORTH AND EAST BAY VALLEYS...AND EVEN INTO SAN FRANCISCO BAY ON A FEW OCCASIONS. AREAS OF DENSE FOG WAS COMMON IN THEN NORTH AND EAST BAY VALLEYS DURING THE NIGHT AND MORNING HOURS...ESPECIALLY FROM THE 16TH THROUGH THE 18TH.

IN AREAS THAT REMAINED FOG-FREE DURING JANUARY...AVERAGE HIGH TEMPERATURES WERE GENERALLY ABOVE NORMAL. BUT IN FOG-PRONE AREAS NEAR THE DELTA AND SAN PABLO BAY...IN CITIES LIKE CONCORD...NAPA...SAN RAFAEL AND MARTINEZ...HIGH TEMPERATURES FOR THE MONTH WERE BELOW NORMAL. LACK OF CLOUD COVER ON MOST NIGHTS ALLOWED THE WARMTH OF THE DAY TO QUICKLY RADIATE AWAY FROM THE SURFACE. THEREFORE...EVEN THOUGH THE AIRMASS OVER THE REGION WAS GENERALLY WARMER THAN AVERAGE...LOW TEMPERATURES FOR THE MONTH WERE MOSTLY NEAR NORMAL OR EVEN SLIGHTLY BELOW.

ONE MORE RAIN EVENT OCCURRED LATE IN THE MONTH...ON JANUARY 29 AND 30...AS AN AREA OF LOW PRESSURE MANAGED TO CUT THROUGH THE PERSISTENT HIGH PRESSURE RIDGE AND MOVE ACROSS NORTHERN AND CENTRAL CALIFORNIA. THUS...JANUARY 2011 HAD ONLY TWO RAIN EVENTS OF ANY SIGNIFICANCE...ONE AT THE BEGINNING OF THE MONTH AND ANOTHER AT THE END. FOR THE MONTH AS A WHOLE...RAINFALL TOTALS WERE ONLY ABOUT 25 TO 40 PERCENT OF NORMAL ACROSS THE SAN FRANCISCO BAY AREA. THE SOUTHERN COUNTIES FARED SOMEWHAT BETTER. RAIN TOTALS FROM MONTEREY BAY SOUTHWARD WERE FROM 40 TO 80 PERCENT OF NORMAL.

AT THE END OF DECEMBER...YEAR-TO-DATE RAINFALL TOTALS RANGED FROM 110 TO 150 PERCENT OF NORMAL. AFTER OUR DRY JANUARY...YEAR-TO-DATE

TOTALS SLIPPED CONSIDERABLY...DOWN TO 75-85 PERCENT OF NORMAL IN THE SOUTH BAY AND FROM 90-110 PERCENT OF NORMAL ELSEWHERE.

...JANUARY REGIONAL TEMPERATURE SUMMARY...

LOCATION	AVG HIGH	NORMAL HIGH	DEPARTURE FROM NORMAL	AVG LOW	NORMAL LOW	DEPARTURE FROM NORMAL
NORTH BAY...						
ANGWIN	56.6	52.9	3.7	39.9	38.0	1.9
HEALDSBURG	58.5	58.0	0.5	38.0	39.4	-1.4
KENTFIELD	55.2	56.2	-1.0	41.2	40.4	0.8
NAPA	57.5	57.5	0.0	39.1	39.1	0.0
PETALUMA	56.4	57.2	-0.8	37.1	38.2	-1.1
SAINT HELENA	58.9	57.4	1.5	39.6	36.9	2.7
SAN RAFAEL	53.7	56.2	-2.5	41.3	41.3	0.0
SANTA ROSA	60.6	57.6	3.0	36.0	38.7	-2.7
SONOMA	56.9	58.2	-1.3	37.0	37.2	-0.2
SAN FRANCISCO PENINSULA...						
HALF MOON BAY	60.7	58.7	2.0	43.5	43.2	0.3
REDWOOD CITY	60.0	58.5	1.5	40.4	39.8	0.6
SAN FRANCISCO AIRPORT	56.7	56.1	0.6	44.3	42.9	1.4
SAN FRANCISCO DOWNTOWN	57.0	57.5	-0.5	46.4	46.4	0.0
EAST BAY...						
BERKELEY	60.0	56.6	3.4	43.3	44.2	-0.9
CONCORD	55.2	57.2	-2.0	40.1	41.6	-1.5
FREMONT	59.9	58.8	1.1	42.7	42.6	0.1
LIVERMORE	57.4	57.0	0.4	38.4	37.4	1.0
MARTINEZ	53.7	55.0	-1.3	35.6	39.1	-3.5
MOUNT DIABLO JUNCTION	56.1	55.6	0.5	42.3	39.2	3.1
NEWARK	58.6	57.6	1.0	41.5	42.0	-0.5
OAKLAND	60.6	57.3	3.3	45.0	44.8	0.2
SOUTH BAY AND SANTA CRUZ COUNTY...						
BEN LOMOND	67.4	61.4	6.0	36.6	37.1	-0.5
GILROY	M	59.8	M	M	37.7	M
LOS GATOS	58.8	58.6	0.2	39.1	38.5	0.6
MOUNT HAMILTON	52.3	49.4	2.9	41.5	37.5	4.0
SAN JOSE	60.4	58.4	2.0	42.0	41.6	0.4
SANTA CRUZ	63.0	60.7	2.3	40.1	39.9	0.2
WATSONVILLE	64.5	60.5	4.0	39.8	39.3	0.5

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	66.4	63.6	2.8	39.8	38.7	1.1
HOLLISTER	60.8	60.8	0.0	37.9	38.0	-0.1
KING CITY	65.6	62.8	2.8	37.0	35.8	1.2
MONTEREY	61.6	60.1	1.5	44.7	43.9	0.8
SALINAS	66.1	62.5	3.6	40.4	41.3	-0.9

...JANUARY REGIONAL PRECIPITATION SUMMARY...

LOCATION	JAN TOTAL	AVERAGE JAN PRECIP	PERCENT OF NORMAL
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NORTH BAY...

ANGWIN	2.34	8.15	29
CALISTOGA	2.37	7.74	31
CLOVERDALE	3.41	8.82	39
HEALDSBURG	2.73	8.80	31
KENTFIELD	2.81	9.60	29
MUIR WOODS	2.79	7.37	38
NAPA	1.28	5.35	24
OCCIDENTAL	2.99	11.69	26
PETALUMA	1.43	5.33	27
SAINT HELENA	2.31	7.40	31
SAN RAFAEL	1.87	7.38	25
SANTA ROSA	1.68	6.13	27
SONOMA	1.99	6.52	31

SAN FRANCISCO PENINSULA...

HALF MOON BAY	1.47	5.55	26
PACIFICA	M	6.28	M
REDWOOD CITY	0.70	4.19	17
SAN FRANCISCO AIRPORT	0.94	4.45	21
SAN FRANCISCO DOWNTOWN	1.55	4.53	34

EAST BAY...

BERKELEY	1.46	5.45	27
CONCORD	1.32	3.78	35
FREMONT	0.79	3.05	26
LIVERMORE	0.78	2.99	26
MARTINEZ	1.52	4.25	36
MOUNT DIABLO JUNCTION	1.85	4.76	39
NEWARK	0.70	2.96	24
OAKLAND	1.39	4.85	29
RICHMOND	0.99	4.91	20

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	2.78	10.18	27
GILROY	M	4.32	M
LOS GATOS	1.41	4.94	29
MOUNT HAMILTON	1.65	4.42	37
SAN JOSE	0.96	3.03	32
SANTA CRUZ	2.17	6.49	33
WATSONVILLE	2.05	4.72	43

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	1.70	3.49	49
HOLLISTER	2.30	2.91	79
KING CITY	1.51	2.21	68
MONTEREY	1.95	4.19	47
PINNACLES NATIONAL MONUMENT	M	3.20	M
SALINAS	1.48	3.00	49

...DAILY TEMPERATURE RECORDS FOR JANUARY 2010...

DATE	LOCATION	RECORD MAXIMUM TEMP	PREVIOUS RECORD
1/20	OAKLAND AIRPORT	67	64 IN 2009
1/22	KENTFIELD	67	66 IN 1974
1/22	OAKLAND	67	66 IN 2007
1/22	SAN JOSE	72	71 IN 1961
1/22	SANTA ROSA	74	74 IN 1988
1/23	SALINAS	82	80 IN 1968
1/23	OAKLAND MUSEUM	72	72 IN 1974
1/24	SALINAS	76	76 IN 1975
1/25	SAN FRANCISCO AIRPORT	68	67 IN 1984
1/25	OAKLAND MUSEUM	72	70 IN 1984
1/25	OAKLAND AIRPORT	70	65 IN 1986
1/25	RICHMOND	69	68 IN 1984
1/25	MOFFETT FIELD	70	69 IN 1988
1/25	GILROY	71	71 IN 2007

1/25	SALINAS	77	77 IN 1988
1/25	SALINAS AIRPORT	76	76 IN 1935
1/26	SAN JOSE	70	68 IN 1934
1/26	SALINAS	80	78 IN 1989
1/26	MOFFETT FIELD	69	69 IN 1986
1/26	SALINAS AIRPORT	76	76 IN 1986
1/27	GILROY	75	73 IN 1986

...MONTHLY RANKS FOR DOWNTOWN SAN FRANCISCO...

AVERAGE HIGH TEMPERATURE.....57.0.....49TH WARMEST OUT OF 136 YEARS
 AVERAGE LOW TEMPERATURE.....46.4.....49TH WARMEST OUT OF 136 YEARS
 PRECIPITATION.....1.55 INCHES.....26TH DRIEST OUT OF 161 YEARS

...MONTHLY EXTREMES FOR SELECT LOCATIONS...

LOCATION	WARMEST DAY(S)	COOLEST DAY(S)	WETTEST DAY(S)
SAN FRANCISCO	1/23 68 DEG	1/07 39 DEG	1/02 0.55 IN
SAN JOSE	1/22 72 DEG	1/10 31 DEG	1/30 0.51 IN
SALINAS AP	1/23 1/25 1/26 1/27 76 DEG	1/10 31 DEG	1/01 0.77 IN

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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